de Gucena 2018-01875

Feature Activity 01 Documentation

Pulling an image

```
C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker images
REPOSITORY    TAG        IMAGE ID    CREATED    SIZE

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker search ubuntu
NAME                                                    DESCRIPTION                                      STARS   OFFICIAL   AUTOMATED
ubuntu                                                  Ubuntu is a Debian-based Linux operating sys…    12244   [OK]
dorowu/ubuntu-desktop-lxde-vnc                          Docker image to provide HTML5 VNC interface …    532                [OK]
websphere-liberty                                       WebSphere Liberty multi-architecture images …    270     [OK]
rastasheep/ubuntu-sshd                                  Dockerized SSH service, built on top of offi…    251                [OK]
consol/ubuntu-xfce-vnc                                  Ubuntu container with "headless" VNC session…    240                [OK]
ubuntu-upstart                                          Upstart is an event-based replacement for th…    110     [OK]
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mysql-5    ubuntu-16-nginx-php-phpmyadmin-mysql-5           50                 [OK]
open-liberty                                            Open Liberty multi-architecture images based…    45      [OK]
ubuntu-debootstrap                                      debootstrap --variant=minbase --components=m…    44      [OK]
i386/ubuntu                                             Ubuntu is a Debian-based Linux operating sys…    25
nuagebec/ubuntu                                         Simple always updated Ubuntu docker images w…    24                 [OK]
1and1internet/ubuntu-16-apache-php-5.6                  ubuntu-16-apache-php-5.6                         14                 [OK]
1and1internet/ubuntu-16-apache-php-7.0                  ubuntu-16-apache-php-7.0                         13                 [OK]
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10 ubuntu-16-nginx-php-phpmyadmin-mariadb-10        11                 [OK]
1and1internet/ubuntu-16-nginx-php-5.6-wordpress-4       ubuntu-16-nginx-php-5.6-wordpress-4              9                  [OK]
1and1internet/ubuntu-16-nginx-php-5.6                   ubuntu-16-nginx-php-5.6                          8                  [OK]
1and1internet/ubuntu-16-nginx-php-7.0                   ubuntu-16-nginx-php-7.0                          4                  [OK]
pivotaldata/ubuntu                                      A quick freshening-up of the base Ubuntu doc…    4
1and1internet/ubuntu-16-nginx-php-7.1-wordpress-4       ubuntu-16-nginx-php-7.1-wordpress-4              3                  [OK]
pivotaldata/ubuntu16.04-build                           Ubuntu 16.04 image for GPDB compilation          2
1and1internet/ubuntu-16-php-7.1                         ubuntu-16-php-7.1                                1                  [OK]
smartentry/ubuntu                                       ubuntu with smartentry                           1                  [OK]
pivotaldata/ubuntu-gpdb-dev                             Ubuntu images for GPDB development                1
1and1internet/ubuntu-16-sshd                            ubuntu-16-sshd                                   1                  [OK]
pivotaldata/ubuntu16.04-test                            Ubuntu 16.04 image for GPDB testing              0
```

```
C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
92473f7ef455: Pull complete
fb52bde70123: Pull complete
64788f86be3f: Pull complete
33f6d5f2e001: Pull complete
Digest: sha256:eed7e1076bbc1f342c4474c718e5438af4784f59a4e88ad687dbb98483b59ee4
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker rmi ubuntu:16.10
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker images
REPOSITORY    TAG        IMAGE ID       CREATED        SIZE
ubuntu        16.04      aefd7f02ae24   3 weeks ago    134MB
```

Running our container

```
C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE     COMMAND     CREATED     STATUS     PORTS     NAMES

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE          COMMAND              CREATED          STATUS                     PORTS     NAMES
38d024ff4c7b   ubuntu:16.04   "/bin/echo 'Hello wo…"   16 seconds ago   Exited (0) 11 seconds ago            jovial_haibt

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run ubuntu:16.04 /bin/bash

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE          COMMAND              CREATED          STATUS                     PORTS     NAMES
12461a3b946c   ubuntu:16.04   "/bin/bash"          6 seconds ago    Exited (0) 5 seconds ago             gifted_swirles
38d024ff4c7b   ubuntu:16.04   "/bin/echo 'Hello wo…"   31 seconds ago   Exited (0) 26 seconds ago            jovial_haibt

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run -it ubuntu:16.04 /bin/bash
root@852fc4740606:/# pwd
/
root@852fc4740606:/# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@852fc4740606:/# exit
exit
```

```
C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run -d ubuntu:16.04 /bin/sleep 3600
343b2da8190f60a37ec5ef27e4ff9c5b41aaec6ccde7e941b152dae5a01be237

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE          COMMAND              CREATED         STATUS        PORTS     NAMES
343b2da8190f   ubuntu:16.04   "/bin/sleep 3600"    9 seconds ago   Up 7 seconds            upbeat_sammet

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker exec -it 343 /bin/bash
root@343b2da8190f:/# ps aux
USER        PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root          1  0.1  0.0   4372   668 ?        Ss   14:04   0:00 /bin/sleep 3600
root          8  0.6  0.0  18236  3292 pts/0    Ss   14:04   0:00 /bin/bash
root         18  0.0  0.0  34420  2852 pts/0    R+   14:05   0:00 ps aux
root@343b2da8190f:/# exit
exit

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE          COMMAND              CREATED          STATUS         PORTS     NAMES
343b2da8190f   ubuntu:16.04   "/bin/sleep 3600"    45 seconds ago   Up 44 seconds            upbeat_sammet

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker stop 343b
343b

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE          COMMAND              CREATED            STATUS                      PORTS     NAMES
343b2da8190f   ubuntu:16.04   "/bin/sleep 3600"    About a minute ago Exited (137) 3 seconds ago            upbeat_sammet
852fc4740606   ubuntu:16.04   "/bin/bash"          About a minute ago Exited (0) About a minute ago         stoic_goldwasser
12461a3b946c   ubuntu:16.04   "/bin/bash"          About a minute ago Exited (0) About a minute ago         gifted_swirles
38d024ff4c7b   ubuntu:16.04   "/bin/echo 'Hello wo…"   2 minutes ago      Exited (0) 2 minutes ago              jovial_haibt
```

Removing containers

```
C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE         COMMAND              CREATED              STATUS                      PORTS      NAMES
343b2da8190f   ubuntu:16.04  "/bin/sleep 3600"    About a minute ago   Exited (137) 3 seconds ago             upbeat_sammet
852fc4740606   ubuntu:16.04  "/bin/bash"          About a minute ago   Exited (0) About a minute ago          stoic_goldwasser
12461a3b946c   ubuntu:16.04  "/bin/bash"          About a minute ago   Exited (0) About a minute ago          gifted_swirles
38d024ff4c7b   ubuntu:16.04  "/bin/echo 'Hello wo…" 2 minutes ago      Exited (0) 2 minutes ago               jovial_haibt

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker rm 343b
343b

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker rm 852f
852f

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker rm 1246
1246

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker rm 38d0
38d0

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
'Hello and goodbye!'

C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
```